

1 Claim As My Invention  
~~Patent Claims~~

- 1 ~~A method for optimization of the utilization of~~  
connecting sections in systems in which information is  
transmitted in data packets, having
- 5 a scheduling method ( $S_2$ ) by means of which connection  
parameters, which are representative of lower trans-  
mission rates of the data packets, are guaranteed during  
the transmission process, and having
- 10 a queue identifier (QID) which is stored in the packet  
header,  
characterized
- in that a further scheduling method ( $S_1$ ) may precede the  
scheduling method ( $S_2$ ) depending on the queue identifier  
(QID), by means of which further scheduling method ( $S_1$ )
- 15 the connection parameters which are representative of  
upper transmission rates of the data packets are limited  
during the transmission process.
2. The method as claimed in claim 1,  
characterized
- 20 in that the scheduling method ( $S_2$ ) is a weighted fair  
queueing scheduling algorithm.
3. The method as claimed in claim 1 or 2,  
characterized
- in that an input device (EE) contains a table (T) which
- 25 contains the current filling levels of buffer stores  
( $P_1 \dots P_n$ ).

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4 ~~The method as claimed in one of the preceding~~  
claims,

characterized

5 in that, depending on the control data which are obtained  
from the scheduling method (S<sub>2</sub>), an output device (AE)  
takes data packets from at least one of the buffer stores  
(P<sub>1</sub>...P<sub>n</sub>) and acknowledges this process to the input  
device (EE).

10 5. The method as claimed in one of the preceding  
claims,

characterized

in that the queue identifier (QID) is entered while the  
connection is being set up.

15 6. The method as claimed in one of the preceding  
claims,

characterized

in that the data packets are ATM cells.